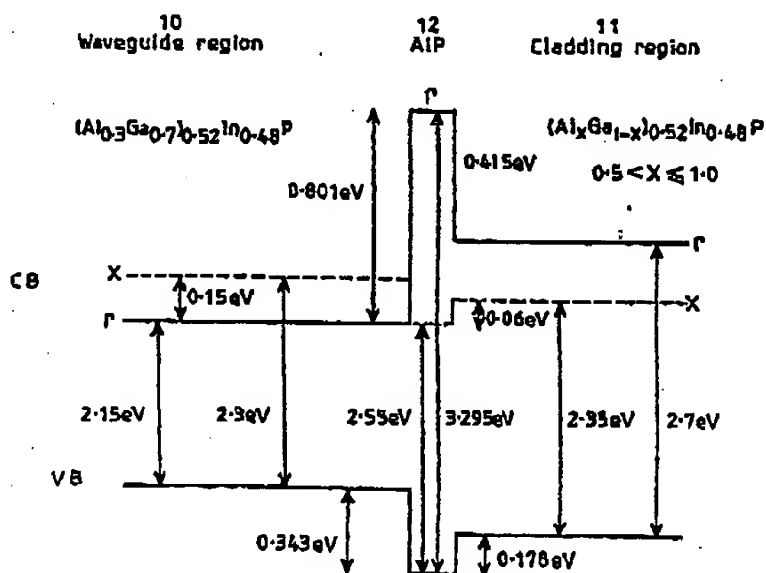




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(54) Title: AN OPTICAL SEMICONDUCTOR DEVICE



(57) Abstract

An optical semiconductor device comprising: an active region; and a p-doped cladding region disposed on one side of the active region; wherein an electron-reflecting barrier is provided on the p-side of the active region for reflecting both Γ -electrons and X-electrons, the electron-reflecting barrier providing a greater potential barrier to Γ -electrons than the p-doped cladding region.

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